## EQUIPMENT LIST "A" PROJECT DESCRIPTION GENERAL A. EQUIPMENT TO BE SUPPLIED BY THE SHA THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF ROSEWICK ROAD AND WASHINGTON AVENUE IN CHARLES COUNTY. MARYLAND. ROSEWICK ROAD IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION. THE TRAFFIC SIGNAL WILL BE INSTALLED AS PART OF CHARLES COUNTY DESCRIPTION QUANTITY GOVERNMENT PROJECT PGM# VC103-6-035. FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER 2 EACH EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH INTERSECTION MONITOR HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET INTERSECTION OPERATION 1 EACH THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE ROSEWICK ROAD APPROACHES OPERATING CONCURRENTLY AND THE WASHINGTON AVENUE APPROACHES OPERATING CONCURRENTLY. VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS 1 EACH EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE EASTBOUND AND WESTBOUND ROSEWICK ROAD APPROACHES AND THE NORTHBOUND AND SOUTHBOUND WASHINGTON AVENUE APPROACHES. SHEET ALUMINUM SIGNS TO CONSIST OF : 46 S.F. PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS THE SOUTH LEG OF WASHINGTON AVENUE. D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED -MAST ARM MOUNT APS NULES R10-3(1) SIGN (9 IN. $\times$ 15 IN.) TO READ "PUSHBUTTON TO CROSS WASHINGTON AVENUE" TYPI MESSAGES FOR ACCESSIBLE PED SIGNALS WASHINGTON AVENUE AND ROSEWICK ROAD - SOUTH LEG MODICAL INTERSECTION, STREETS AT 90 DEGREES EQUIPMENT LIST "C" WAIT: "WAIT TO CROSS WASHINGTON AT ROSEWICK" \* WALK: RAPID TICK \* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS \* 10' \*\* MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY. CONTROLLER REQUIREMENTS INSTALL A FULL-TRAFFIC-ACTUATED. EIGHT-PHASE CONTROLLER WITH TWO (2) FOUR-CHANNEL. TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS. INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET. PHONE DROP UPON COMPLETION OF THIS PROJECT. THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS. ZIP CODE. AND PHONE NUMBER. MAINTENANCE OF TRAFFIC PROJECT CONTACTS THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS: THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAYBE USED AS DIRECTED BY THE ENGINEER. MR. MICHAEL SNYDER CHARLES COUNTY PHONE: (301) 396-5829 MR. JOE HORTY DISTRICT UTILITY ENGINEER ASSISTANT DISTRICT ENGINEER - TRAFFIC STANDARD NO. MD-104.04-01 (SHOULDER WORK) PHONE: (410) 841-1039 PHONE: (410) 841-1019 STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE) MR. RICHARD L. DAFF. SR. CHIEF. TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630 ASSISTANT DISTRICT ENGINEER - MAINTENANCE STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE) PHONE: (410) 841-1013 STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE) ' PHASE CHART PHASE I+ 5 PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6. PHASE 2 + 5 OR PHASE 2 + 6 I+ 5 CHANGE PHASE 1+ 6 1+ 6 CHANGE PHASE 2 + 5 2 + 5 CHANGE PHASE 2 + 6 FL/DW FL/DW PED. CLEARANCE 2 + 6 CHANGE PHASE 3 + 7DW 3 + 7 CHANGE PHASE 3 + 8DW DW DW 3 +,8 CHANGE R PHASE 4 + 7DW

G

FL/R | FL/R | FL/R |

FL/R

FL/R

FL/R

FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y

4 + 7 CHANGE

PHASE 4 + 8

4 + 8 CHANGE

FLASHING

OPERATION

DW

DW

DW

DW

DW

DW

DARK

EQUIPMENT LIST "B"

	QUANTITY		DESCRIPTION
	LUMP SUM		MAINTENANCE OF TRAFFIC
	8 C.Y.		TEST PIT EXCAVATION
	540 L.F.	•	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
	200 L.F.		24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
·	80 S.F.		DETECTABLE WARNING SURFACE
	22 C.Y.		CONCRETE FOR SIGNAL FOUNDATION
	LUMP SUM		REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
	525 L.F.		NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
i	355 L.F.		2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
• 1	1010 L.F.		3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
	300 L.F.		3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
•	360 L.F.		4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
	80 L.F.		4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
	1 EACH		METERED SERVICE PEDESTAL (120/240 VOLTS 60 AMPS)
	3 EACH		NON-INVASIVE DETECTOR WITH 500 FOOT LEAD-IN CABLE
	3 EACH		NON-INVASIVE DETECTOR WITH 1000 FOOT LEAD-IN CABLE
	17 EACH		FURNISH AND INSTALL ELECTRICAL HANDHOLE
•	46 S.F.		INSTALL OVERHEAD SIGN
	4 EACH		VIDEO DETECTION CAMERA
	2 EACH		CONTROL CABLE. 250 FT. VIDEO DETECTION CAMERA TO CONTROLLER
	2 EACH		CONTROL CABLE. 500 FT. VIDEO DETECTION CAMERA TO CONTROLLER
	1 EACH	:	STEEL POLE WITH A SINGLE 50 FT. MAST ARM
,	2 EACH		STEEL POLE WITH A SINGLE 60 FT. MAST ARM
	2 EACH	•.	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
	2 EACH		15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
	9 EACH		GROUND ROD - 3/4 INCH DIAMETER × 10 FOOT LENGTH
	12 EACH	,	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
	40 EACH		12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
	1 EACH		CUT. CLEAN. GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
	90 L.F.		ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G - THHN/THWN
	545 L.F.		ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G) TC
,	200 L.F.		ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)
•	295 L.F.		ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G)
	1970 L.F.	•	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G)
* · · · · · · · · · · · · · · · · · · ·	1 EACH		INSTALL CONTROLLER AND CABINET - BASE MOUNT
	2 EACH		16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
	2 EACH		AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
	1 EACH		2 WIRE CENTRAL CONTROL UNIT
	1 EACH		16.5 FT. STEEL "T" POLE WITH SINGLE 70 FT. MAST ARM
	7 EACH	Α.	TRAFFIC BARRIER W-BEAM POST NORMAL 6 FT. LENGTH
	1 EACH		BREAKAWAY PEDESTAL POLE (ANY SIZE)

SHA NO:BW407M84 ROSEWICK RD@WASHINGTON RD; CHARLES COUNTY

PGM# VC103-8-035 | TSP-3

WARREYA

801 South Caroline Street

Baltimore, Maryland 21231 (410) 235-3450

Whitman, Requardt

3 REDLINE NO.

7/31/2008

and Associates. LLP

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic of Cafat

TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNALIZATION PLAN

ROSEWICK ROAD AND WASHINGTON AVENUE La Plata, Maryland

DRAWN BY: S. BLOSS F.A.P. NO. 4643 SEE TITLE SHEET CHECKED BY: N. LEARY S.H.A. NO. SHEET NO. SCALE: I" = 20' CHARLES COUNTY: T.I.M.S. NO. DATE: 129 OF 158 9/26/2008 OBCROS00.00 H600 LOG MILE:

m:\41023a\tsp03wash\_ph2rl.dgn